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What is claimed is:

1. A communication terminal apparatus comprising:

a plurality of search correlation means for performing correlation detection of a signal transmitted from a base station apparatus to be searched; and

search control means for controlling a phase for each of said search correlation means to perform the correlation detection.

wherein said search control means makes each of said search correlation means calculate a first correlation value on every phase over a first integration time, selects a phase with the first correlation value more than a threshold in descending order of the first correlation value, makes each of said search correlation means calculate a second correlation value on a selected phase over a second integration time longer than the first integration time, and specifies a phase with a greatest second correlation value as a phase of the signal transmitted from the base station apparatus.

20 2. A communication terminal apparatus comprising:

a plurality of search correlation means for performing correlation detection of a signal transmitted from a base station apparatus to be searched; and

search control means for controlling a phase for 25 each of said search correlation means to perform the correlation detection,

wherein said search control means makes each of said

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search correlation means calculate a first correlation value on every phase over a first integration time, compares the first correlation value with a threshold, makes some of said search correlation means calculate a second correlation value on a phase with the first correlation value more than the threshold over a second integration time longer than the first integration time, makes rest of said search correlation means that is not used in calculating the second correlation value calculate a third correlation value on a peripheral phase of a phase with a greatest first correlation value, specifies a phase with a greatest second correlation value as a phase of the signal transmitted from the base station apparatus, and specifies a phase of a delayed wave based on the third correlation value.

- 3. A communication terminal apparatus comprising:
- a plurality of search correlation means for performing correlation detection of a signal transmitted from a base station apparatus to be searched;
- demodulation correlation means for performing correlation detection of another signal transmitted from another base station apparatus currently communicating with said communication terminal apparatus; and

search control means for controlling a phase for 25 each οf said search correlation means and said demodulation correlation means perform to the correlation detection,

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wherein said search control means makes each of said search correlation means calculate a first correlation value on every phase over a first integration time, compares the first correlation value with a threshold, demodulation means calculate makes said а second correlation value on a phase with the first correlation value more than the threshold over a second integration time longer than the first integration time, makes each of said search correlation means calculate a third correlation value on a peripheral phase of a phase with a greatest first correlation value, specifies a phase with a greatest second correlation value as a phase of the signal transmitted from the base station apparatus to be searched, and specifies a phase of a delayed wave based on the third correlation value.

4. A cell search method, comprising:

performing first correlation detection of a transmitted signal to be searched over a first integration time on every phase;

correlation detection with a threshold;

performing second correlation detection on a phase with the first correlation value more than the threshold over a second integration time longer than the first integration time in descending order of the first correlation value; and

specifying a phase with a greatest second

correlation value in the second correlation detection as a phase of the transmitted signal.

5. A cell search method, comprising:

performing first correlation detection of a transmitted signal to be searched over a first integration time on every phase;

comparing a first correlation value in the first correlation detection with a threshold;

performing second correlation detection on a phase

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over a second integration time longer than the first

integration time, while concurrently performing third

correlation detection on a peripheral phase of a phase

with a greatest first correlation value;

specifying a phase with a greatest second correlation value in the second correlation detection as a phase of the transmitted signal; and

specifying a phase of a delayed wave based on the third correlation value.

20 6. A cell search method, comprising:

performing in a first correlator first correlation detection of a transmitted signal to be searched over a first integration time;

comparing a first correlation value in the first correlation detection with a threshold;

performing in a second correlator second correlation detection on a phase with the first

correlation value more than the threshold over a second integration time longer than the first integration time;

performing in said first correlator third correlation detection on a peripheral phase of a phase with a greatest first correlation value;

specifying a phase with a greatest second correlation value in the second correlation detection as a phase of the transmitted signal; and

specifying a phase of a delayed wave based on the 10 third correlation value.